

# Four new species for the Belgian fauna (Lepidoptera: Lyonetiidae, Coleophoridae, Pterophoridae)

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**Samenvatting.** Enkele nieuwe soorten voor de Belgische fauna (Lepidoptera: Lyonetiidae, Coleophoridae, Pterophoridae)

De auteur vermeldt vier nieuwe soorten voor de Belgische fauna: *Lyonetia prunifoliella*, *Coleophora milvipennis* Zeller, 1839, *C. fuscocuprella* Herrich-Schäffer, 1855 en *Pselnophorus heterodactylus* (Müller, 1764).

**Résumé.** Quelques nouvelles espèces pour la faune belge (Lepidoptera: Lyonetiidae, Coleophoridae, Pterophoridae)

L'auteur mentionne quatre espèces nouvelles pour la faune belge: *Lyonetia prunifoliella*, *Coleophora milvipennis* Zeller, 1839, *C. fuscocuprella* Herrich-Schäffer, 1855 et *Pselnophorus heterodactylus* (Müller, 1764).

**Keywords:** Belgium – faunistics – *Lyonetia prunifoliella* – *Coleophora milvipennis* – *Coleophora fuscocuprella* – *Pselnophorus heterodactyla* – new records.

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## *Lyonetia prunifoliella* (Hübner, 1796)

One specimen was caught by sweeping lower vegetation and bushes of *Crataegus monogyna* Jacq. and *Prunus spinosa* L. at Lessive (province of Namur, Belgium) on 01 June 1997, leg. & coll. W. De Prins. This is the first confirmed record of this species from Belgium. It should be included in the "Catalogue of the Lepidoptera of Belgium" (De Prins 1998) just after *Lyonetia clerkella* (p. 52). The adults are at once distinguishable from the much more common *Lyonetia clerkella* (Linnaeus, 1758) by the oblique fascia on the inner margin of the forewings (see figs. 1 and 2).

The Palaearctic species occurs throughout Europe and Asia Minor and reaches Japan (Emmet 1985: 224). Baraniak (1996: 63) mentions 20 European countries, among which Belgium. The source of that record could not be traced. The species has not been recorded from the Netherlands or from Luxemburg. In Germany, it is mentioned from 7 Bundesländer, but only in Saarland and Brandenburg it has been found after 1980 (Gaedike & Heinicke 1999: 59). In France, the species has been recorded from 15 departments, mainly in the central area of the country (Lhomme 1946–1963: 1071). It is a very local species in Great Britain but not observed there anymore since about 1900 (Emmet 1985: 224).

The caterpillar lives on the leaf underside of several Rosaceae, including *Prunus spinosa*, *Crataegus* sp., *Malus* sp., *Cotoneaster* sp., *Sorbus* sp., *Cydonia* sp., and *Mespilus* sp., and additionally it has been found on *Betula* sp. (Betulaceae) (Lhomme 1946–1963: 1072, Emmet 1985: 224).

### ***Coleophora milvipennis* Zeller, 1839**

One specimen was caught on light on 19.VII.2002 in the nature domain Dombergheide (province of Antwerpen, Belgium), leg. J. & W. De Prins (det. H. W. van der Wolf) (fig. 3). This is the first record for the Belgian fauna. The species should be included in the Belgian Catalogue (De Prins 1998) on p. 65 just after *Coleophora flavipennella* (Duponchel, 1843).

This Palaearctic species occurs in Europe, Turkey, Asia Minor till Japan (Emmet *et al.* 1996: 220). In Europe, it is recorded from 22 countries (Baldizzone 1996: 85). Kuchlein (1993: 212) mentions the species from 10 Dutch provinces. In France, *C. milvipennis* has not been observed frequently. Lhomme (1946–1963: 890) mentions it from 7 departments. In Germany, it is known from all Bundesländer (Gaedike & Heinicke 1999: 68). In Great Britain, the species is widespread in England northwards to Yorkshire, North Wales, central Schotland and the Highlands (Emmet *et al.* 1996: 220).

Probably the species has been confused with *Coleophora alnifoliae* Barasch, 1934, which has been mentioned from the provinces of Antwerpen and Hainaut and of which the larvae feeds on *Alnus* sp. The caterpillar of *C. milvipennis* lives on *Betula* sp. (Emmet *et al.* 1996: 220); it may occasionally also occurs on *Carpinus betulus* L. (Emmet *et al.* 1996: 220) and *Myrica gale* L. (Lhomme 1946–1963: 890). A re-examination of the available material in the collections is needed to establish the occurrence of both species in Belgium.

### ***Coleophora fuscocuprella* Herrich-Schäffer, 1855**

One specimen was caught on 27.V.1999 at Olloy-sur-Viroin (province of Namur, Belgium), leg. and det. H. W. van der Wolf, coll. W. De Prins (fig. 4). The species is recorded here for the first time from Belgium. It should be included in the Belgian Catalogue (De Prins 1998) on p. 65 just after *Coleophora cornutella* Herrich-Schäffer, 1861.

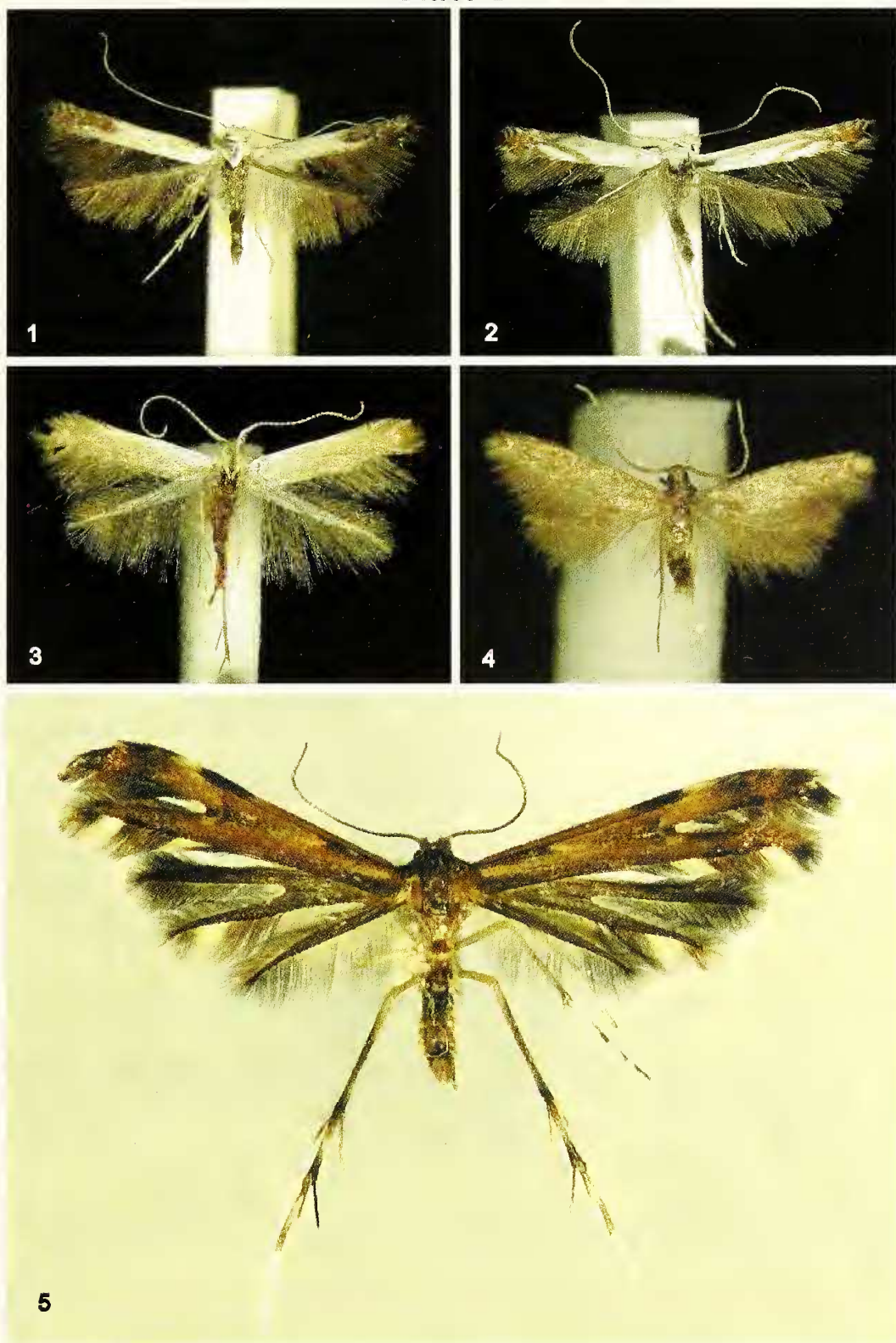
The species has probably been overlooked in the past as it is not very rare in the adjacent countries. Kuchlein (1993: 213) mentions it from 4 Dutch provinces, Lhomme (1946–1963: 880) writes that it is rarely observed, and mentions 4 departments: Cher, Gironde, Seine-et-Loire, and Vosges. In Germany, it is known from all Bundesländer, except from Rheinland-Pfalz (Gaedike & Heinicke 1999: 69). In Great Britain, the species is known from the southern counties, from Hampshire to Kent, and from Wales (Emmet *et al.* 1996: 228).

The caterpillar feeds mainly on *Corylus avellana* L., a very common species in Belgium, and it is also mentioned from *Betula* sp., especially saplings of *B. pubescens* Ehrh. and *Carpinus betulus* L. (Kuchlein 1993: 213, Emmet *et al.* 1996: 228).

### ***Pselnophorus heterodactyla* (Müller, 1764)**

A caterpillar of *Pselnophorus heterodactyla* was found pupating on the trunk of *Pinus sylvestris* L. at Chantemelle (province of Luxemburg, Belgium) on 17.V.2000. The adult emerged on 27.V.2000, leg. et coll. W. De Prins (fig. 5).

## Plate 1



Figs. 1–5: 1.– *Lyonetia clerkella* (Linnaeus, 1758), Belgium, Province of Antwerpen, Tongerlo, mine 19.V.1998, e.l. *Malus sylvestris* L. 02.VI.1998, leg. W. De Prins; 2.– *Lyonetia pruifoliella* (Hübner, 1796), Belgium, Province of Namur, Lessive, 01.VI.1997, leg. W. De Prins; 3.– *Coleophora milvipennis* Zeller, 1839, Belgium, Province of Antwerpen, Turnhout, Domborgheide, 19.VII.2003, leg. J. & W. De Prins; 4.– *Coleophora fuscocuprella* Herrich-Schäffer, 1855, Belgium, Province of Namur, Olloy-sur-Viroin, 27.V.1999, leg. H. W. van der Wolf; 5.– *Pseluophorus heterodactyla* (Müller, 1764), Belgium, Province of Luxemburg, Chantemelle, larva 17.V.2000, imago 27.V.2000, leg. W. De Prins. (Photographs: Jurate De Prins).

The species has been mentioned from Belgium before without any locality (De Prins 1983: 25) due to a misinterpretation of the record of "*O. heterodactylus* Villiers (1789)" in Lhomme (1935–1946: 179). It was not included in de "*Catalogue of the Lepidoptera of Belgium*" (De Prins 1998: 109), because no Belgian specimens could be found in collections. This is therefore the first confirmed record of the species from Belgium. It should be in the catalogue just after *Merrifieldia baliodactylus* (Zeller, 1841) on p. 108.

It is widespread in Europe (24 countries are listed), eastwards till Ukraine and Kazakhstan (Gielis 1996: 88, 2003: 72). In the Netherlands only two old records are known from Zuid-Holland and Gelderland (Kuchlein 1993: 235). In Germany the species is recorded from 9 Bundesländer (Gaedike & Heinicke 1999: 235). In France it is mainly known from mountainous regions (Lhomme 1935–1946: 189). In Great Britain it is "an exceedingly local species", recorded from Gloucestershire, Norfolk, Perthshire, Cumberland, and Aberdeen (Beirne 1954: 181).

The caterpillar lives on *Mycelis muralis* L., *Prenanthes purpurea* L. and *Lapsana communis* L. (Gielis 1996: 88).

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